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(SIXTEENTH) AWARD OF THE DONOHOE COMET-MEDAL.

The Comet-Medal of the Astronomical Society of the Pacific has been awarded to WALTER F. GALE, Esq., F. R. A. S., of Paddington, N. S. W., for his discovery of an unexpected comet on April 2, 1894.

The Committee on the Comet-Medal,

EDWARD S. HOLDEN,
J. M. SCHAEBERLE,
CHAS. BURCKHALTER.

June 2, 1894.

CLOUD OBSERVATIONS ON THE ISLAND OF YEZO, JAPAN, WITH REFERENCE TO THE SOLAR ECLIPSE OF 1896, AUGUST 9.

By W. W. CAMPBELL.

Through the kindness of Professor HIROI of Sapporo, Japan, Professor HOLDEN has received copies of the meteorological observations made at five stations on the island of Yezo, which lie in the path of the eclipse which occurs 1896, August 9. The observations extend back only to 1889 or 1890; but for the three or four years covered they are very complete. They were made at 4-hour intervals throughout the day. For the benefit of those who are planning to observe the eclipse, I have extracted from the records the average cloudiness, for the months of July and August, at 2 P. M. and 6 P. M. (The eclipse occurs at about 3 P. M.) The results, printed below, are expressed on a scale of 10: 0 being perfectly clear, and 10 completely clouded:

SOYA METEOROLOGICAL STATION.

Long. 141° 50′ E. Lat. 45° 30′ N.

	1890.		1891.		1892.		1893.		
	2 P.M.	6 P.M.	2 P.M.	6 P.M.	2 P.M.	6 P.M.	2 P.M.	6 P.M.	Mean.
July	6.5	7.2	7.1	7.7	6.4	6.1	7.9	8.2	7.1
Aug.	5.5	5.8	7.6	7.5	7.2	7.4	7.8	7.6	7.0

KAMIKAWA METEOROLOGICAL STATION.

Long. 142° 20′ E. Lat. 43° 45′ N.

	1889.		1890.		1891.		1893.		
	2 P.M.	6 P.M.	2 P.M.	6 P.M.	2 P.M.	6 P.M.	2 P.M.	6 P.M.	Mean.
July...	7.3	8.1	6.7	6.2	8.3	7.9	7.8	7.4	7.5
Aug...	5.9	5.7	5.3	4.6	7.8	7.4	7.5	7.8	6.5

ABASHIRI METEOROLOGICAL STATION.

Long. 144° 15′ E. Lat. 44° 0′ N.

	1890.		1892.		1893.		
	2 P.M.	6 P.M.	2 P.M.	6 P.M.	2 P.M.	6 P.M.	Mean.
July......	6.4	7.6	8.4	8.4	7.2	7.7	7.6
Aug......	4.2	3.5	7.1	7.0	7.3	8.3	6.2

KUSHIRO METEOROLOGICAL STATION.

Long. 144° 35′ E. Lat. 43° 20′ N.

	1890.		1891.		1892.		1893.		
	2 P.M.	6 P.M.	2 P.M.	6 P.M.	2 P.M.	6 P.M.	2 P.M.	6 P.M.	Mean.
July...	6.0	7.4	8.3	8.5	7.5	8.4	..	..	7.7
Aug...	8.0	9.6	7.8	8.5	7.3	8.7	7.3	8.6	8.2

NEMURO METEOROLOGICAL STATION.

Long. 145° 35′ E. Lat. 43° 20′ N.

	1890.		1891.		1893.		
	2 P.M.	6 P.M.	2 P.M.	6 P.M.	2 P.M.	6 P.M.	Mean.
July......	6.6	8.2	7.5	8.5	7.8	8.6	7.8
Aug......	7.6	8.7	7.9	8.1	6.9	8.1	7.9

While these observations, extending over only three and four years, are too few to fix the average cloudiness, they are sufficient to give a general indication of the chances for clear weather. The eclipse occurs on August 9; and probably the best estimate of the cloudiness for that date will be obtained from the above data by combining the means for July and August, giving double weight to those for August. We obtain by that method, for

Soya,	7.0
Kamikawa,	6.8
Abashiri,	6.7
Kushiro,	8.0
Nemuro,	7.9

These results make it plain that the chances for clear weather are considerably greater in the northwest part of the island than in the eastern part. This is explained by the fact that the province of Nemuro and the eastern part of the province of Kushiro are, according to Professor HIROI, "*Very* foggy during the summer months!"

Astronomers will be gratified to learn that the interest of the Japanese Government in the eclipse has been enlisted. Professor HIROI writes: "Our Department of the Interior issued instructions to county offices lying within 30 miles on each side of the line joining Soya and Akkeshi Bay to make cloud observations during the summer months until 1896." The results can probably be obtained, as fast as they are collected, from the Central Meteorological Observatory at Tokio.

PREDICTIONS FOR THE TRANSIT OF MERCURY, NOVEMBER 10, 1894.

By ORRIN E. HARMON.

TIMES OF INGRESS AND EGRESS FOR SEATTLE, SPOKANE AND WALLA WALLA, WASH., AND PORTLAND, OR.

SEATTLE. Lat. 47° 35′ Long. $8^h\ 9^m\ 20^s$		SPOKANE. Lat. 47° 40′ Long. $7^h\ 49^m\ 40^s$		WALLA WALLA. Lat. 46° 6′ Long. $7^h\ 53^m\ 36^s$		PORTLAND. Lat. 45° 32′ Long. $8^h\ 10^m\ 52^s$	
INGRESS. A. M. P. S. T.	EGRESS. P. M. P. S. T.	INGRESS. A. M. P. S. T.	EGRESS. P. M. P. S. T.	INGRESS. A. M. P. S. T.	EGRESS. P. M. P. S. T.	INGRESS. A. M. P. S. T.	EGRESS. P. M. P. S. T.
H. M. S.	H. M. S.	H. M. S.	H. M. S.	H. M. S.	H. M. S.	H. M. S	H. M. S.
7 56 01.58	1 12 27.70	7 56 00.32	1 12 25.78	7 56 01.2	1 12 25.54	7 56 02.52	1 12 27.10

CHEHALIS, Lewis Co., Wash., June 21, 1894